<u>RAW SEQUENCE LISTING</u>

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/627,568B_

Source: _1FW16_

Date Processed by STIC: _11/1/05_

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IFW

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      RAW SEQUENCE LISTING              DATE: 11/01/2005
      PATENT APPLICATION:  US/10/627,568B     TIME: 14:52:07

      Input Set : A:\1963.01-7381US Seq Listing 102805.ST25.txt
      Output Set: N:\CRF4\11012005\J627568B.raw
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   3 <110> APPLICANT: Akzo Nobel Patent Department
   5 <120> TITLE OF INVENTION: EIAV VACCINE AND DIAGNOSTIC
   7 <130> FILE REFERENCE: I 2000.608 US D3
-> 9 <140> CURRENT APPLICATION NUMBER: US/10/627,568B
-> 10 <141> CURRENT FILING DATE: 2003-07-24
  12 <150> PRIOR APPLICATION NUMBER: US 09/658,547
  13 <151> PRIOR FILING DATE: 2000-09-09
  15 <160> NUMBER OF SEQ ID NOS: 21
  17 <170> SOFTWARE: PatentIn version 3.3
  19 <210> SEQ ID NO: 1
  20 <211> LENGTH: 34
  21 <212> TYPE: DNA
  22 <213> ORGANISM: Artificial Sequence
  24 <220> FEATURE:
  25 <223> OTHER INFORMATION: Primer
  27 <400> SEQUENCE: 1
  28 tttacactag tatactccca tatatatcaa acct                    34
  31 <210> SEQ ID NO: 2
  32 <211> LENGTH: 19
  33 <212> TYPE: DNA
  34 <213> ORGANISM: Artificial Sequence
  36 <220> FEATURE:
  37 <223> OTHER INFORMATION: Primer
  39 <400> SEQUENCE: 2
  40 catgctgttc ttactgtca                                     19
  43 <210> SEQ ID NO: 3
  44 <211> LENGTH: 27
  45 <212> TYPE: DNA
  46 <213> ORGANISM: Artificial Sequence
  48 <220> FEATURE:
  49 <223> OTHER INFORMATION: Primer
  51 <400> SEQUENCE: 3
  52 cctcattgca ctaagcaagg atcaggc                            27
  55 <210> SEQ ID NO: 4
  56 <211> LENGTH: 25
  57 <212> TYPE: DNA
  58 <213> ORGANISM: Artificial Sequence
  60 <220> FEATURE:
  61 <223> OTHER INFORMATION: Primer
  63 <400> SEQUENCE: 4
  64 gatagcttct aataatgtag cagta                              25
  67 <210> SEQ ID NO: 5
  68 <211> LENGTH: 21
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RAW SEQUENCE LISTING
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Output Set: N:\CRF4\11012005\J627568B.raw

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69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: Primer
75 <400> SEQUENCE: 5
76 atatcaaacc ttataacaaa t                                    21
79 <210> SEQ ID NO: 6
80 <211> LENGTH: 20
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Primer
87 <400> SEQUENCE: 6
88 attatttggt aaaggggtaa                                      20
91 <210> SEQ ID NO: 7
92 <211> LENGTH: 27
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Primer
99 <400> SEQUENCE: 7
100 gcgatgctga ccatgttacc cctttac                             27
103 <210> SEQ ID NO: 8
104 <211> LENGTH: 27
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Primer
111 <400> SEQUENCE: 8
112 attctacggg gtgatcccag ggggaat                             27
115 <210> SEQ ID NO: 9
116 <211> LENGTH: 24
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: Primer
123 <400> SEQUENCE: 9
124 ccattgtcag ctgtgtttcc tgag                                24
127 <210> SEQ ID NO: 10
128 <211> LENGTH: 26
129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Primer
135 <400> SEQUENCE: 10
136 ccaaagtatt cctccagtag aacctg                              26
139 <210> SEQ ID NO: 11
140 <211> LENGTH: 4
141 <212> TYPE: PRT
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142 <213> ORGANISM: Equine infectious anemia virus
145 <220> FEATURE:
146 <221> NAME/KEY: MISC_FEATURE
147 <223> OTHER INFORMATION: putative nucleoporin motif
149 <400> SEQUENCE: 11
151 Gly Leu Phe Gly
152 1
155 <210> SEQ ID NO: 12
156 <211> LENGTH: 8
157 <212> TYPE: PRT
158 <213> ORGANISM: Equine infectious anemia virus
161 <220> FEATURE:
162 <221> NAME/KEY: MISC_FEATURE
163 <223> OTHER INFORMATION: putative nuclear localization sequence
165 <400> SEQUENCE: 12
167 Arg Arg Lys Gln Glu Thr Lys Lys
168 1               5
171 <210> SEQ ID NO: 13
172 <211> LENGTH: 65
173 <212> TYPE: PRT
174 <213> ORGANISM: Equine infectious anemia virus
177 <220> FEATURE:
178 <221> NAME/KEY: MISC_FEATURE
179 <223> OTHER INFORMATION: s2 amino acid sequence from Figure 2a
181 <400> SEQUENCE: 13
183 Met Gly Leu Phe Gly Lys Gly Val Thr Trp Ser Ala Ser His Ser Met
184 1               5                   10                  15
187 Gly Gly Ser Gln Gly Glu Ser Gln Pro Leu Leu Pro Asn Ser Gln Lys
188             20                  25                  30
191 Asn Leu Ser Val Arg Arg Thr Gln Cys Phe Asn Leu Ile Val Ile Ile
192         35                  40                  45
195 Met Thr Val Arg Thr Ala Trp Gln Asn Arg Arg Lys Gln Glu Thr Lys
196     50                  55                  60
199 Lys
200 65
203 <210> SEQ ID NO: 14
204 <211> LENGTH: 195
205 <212> TYPE: DNA
206 <213> ORGANISM: Equine infectious anemia virus
209 <220> FEATURE:
210 <221> NAME/KEY: misc_feature
211 <223> OTHER INFORMATION: wild type S2 nucleotide sequence from Figure 2b
213 <400> SEQUENCE: 14
214 atgggattat ttggtaaagg ggtaacatgg tcagcatcgc attctatggg gggatcccag    60
216 ggggaatctc aacccctatt acccaacagt cagaaaaatc taagtgtgag gagaacacaa   120
218 tgtttcaacc ttattgttat aataatgaca gtaagaacag catggcagaa tcgaaggaag   180
220 caagagacca agaaa                                                    195
223 <210> SEQ ID NO: 15
224 <211> LENGTH: 198
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225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial
228 <220> FEATURE:
229 <223> OTHER INFORMATION: Delta S2 nucleotide sequence from Figure 2b
232 <220> FEATURE:
233 <221> NAME/KEY: misc_feature          ⁀
234 <222> LOCATION: (140)..(140)
235 <223> OTHER INFORMATION: n is a,c,g, or t
237 <400> SEQUENCE: 15
238 atgggagtat actagtgtaa aggggtaaca tggtcagcat cgcattctac ggggtgatcc      60
240 cagggggaat ctcaacccct attacccaac agtcagaaaa atctaagtgt gaggagaaca     120
->  242 caatgtttca accttattgn tataataatg acagtaagaa cagcatggca gaatcgaagg     180
244 aagcaagaga ccaagaaa                                                   198
247 <210> SEQ ID NO: 16
248 <211> LENGTH: 55
249 <212> TYPE: DNA
250 <213> ORGANISM: Artificial
252 <220> FEATURE:
253 <223> OTHER INFORMATION: EIAVuk from Figure 6; Portion of molecular infectious clone of
254         equine infectious anemia virus
256 <400> SEQUENCE: 16
257 ttgttataag gtttgatata tgggattatt tggtaaaggg gtaacatggt cagca           55
260 <210> SEQ ID NO: 17
261 <211> LENGTH: 58
262 <212> TYPE: DNA
263 <213> ORGANISM: Artificial
265 <220> FEATURE:
266 <223> OTHER INFORMATION: EIAV uk Epsilon S2 from Figure 6; SpeI site
268 <400> SEQUENCE: 17
269 ttgttataag gtttgatata tgggagtata ctagtgtaaa ggggtaacat ggtcagca        58
272 <210> SEQ ID NO: 18
273 <211> LENGTH: 44
274 <212> TYPE: DNA
275 <213> ORGANISM: Artificial
277 <220> FEATURE:
278 <223> OTHER INFORMATION: D14 from Figure 7; 14 base deletion from EIAV uk epsilon S2
280 <400> SEQUENCE: 18
281 ttgttataag gttttactag tgtaaagggg taacatggtc agca                       44
284 <210> SEQ ID NO: 19
285 <211> LENGTH: 33
286 <212> TYPE: DNA
287 <213> ORGANISM: Artificial
289 <220> FEATURE:
290 <223> OTHER INFORMATION: D25 from Figure 7; 25 base deletion from EIAV uk epsilon S2
292 <400> SEQUENCE: 19
293 ttgttataag gttttactag tacatggtca gca                                   33
296 <210> SEQ ID NO: 20
297 <211> LENGTH: 52
298 <212> TYPE: DNA
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299 <213> ORGANISM: Artificial
301 <220> FEATURE:
302 <223> OTHER INFORMATION: D6 from Figure 9; 6 base deletion from EIAV uk epsilon S2
304 <400> SEQUENCE: 20
305 ttgttataag gtttgaggag tatactagtg taaaggggta acatggtcag ca          52
308 <210> SEQ ID NO: 21
309 <211> LENGTH: 49
310 <212> TYPE: DNA
311 <213> ORGANISM: Artificial
313 <220> FEATURE:
314 <223> OTHER INFORMATION: D9 from Figure 9; 9 base deletion from EIAV uk epsilon S2
316 <400> SEQUENCE: 21
317 ttgttataag gtttgagtat actagtgtaa aggggtaaca tggtcagca              49
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 11/01/2005
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Input Set : **A:\1963.01-7381US Seq Listing 102805.ST25.txt**
Output Set: **N:\CRF4\11012005\J627568B.raw**

ᵊase Note:
ᵊ of n and/or Xaa have been detected in the Sequence Listing. Please review the
ʒuence Listing to ensure that a corresponding explanation is presented in the <220>
<223> fields of each sequence which presents at least one n or Xaa.

ʒ#:15; N Pos. 140

ᵥalid <213> Response:
ᵊ of "Artificial" only as "<213> Organism" response is incomplete,
ᵣ 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

ʒ#:15,16,17,18,19,20,21

VERIFICATION SUMMARY   DATE: 11/01/2005
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Ə M:270 C: Current Application Number differs, Replaced Current Application Number
10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:120